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Filed: 10/31/2003	
Title: TEXTUAL FILESYSTEM INTERFACE METHOD AND APPARATUS	Examiner: Mark A. Radtke
Attorney Docket No.: 200207252-1	

**In the claims:**

Please note claims 1-24 as indicated below:

1. (Original) A method of creating a filesystem with transaction based functionality, comprising:  
receiving an indicator to initiate a transaction for files stored in one or more portions of the  
filesystem;

    duplicating the one or more portions of the filesystem within a pseudo-filesystem; and  
    creating a control text file that receives text-based commands to operate on the pseudo-  
filesystem.

2. (Original) The method of claim 1 wherein the duplicating is performed lazily.

3. (Original) The method of claim 1 further comprising:

    processing the text-based commands written to the control file;  
    operating on the one or more portions of the pseudo-filesystem within a transaction  
according to the text-based commands.

4. (Original) The method of claim 1 further comprising:

    completing the transaction upon receipt of a text-based command associated with  
terminating the transaction.

5. (Original) The method of claim 3 wherein the text-based commands include functional equivalent  
commands associated with terminating the transaction and selected from a set of commands for  
performing one of the following functions: delete directory, delete filesystem, and abort.

6. (Original) The method of claim 1 further comprising:

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updating the filesystem with the updates performed on the pseudo-filesystem when the transaction has completed.

7. (Original) The method of claim 6 wherein the updates are performed upon receipt of an indication to commit the transaction.

8. (Original) The method of claim 1 further comprising:

creating a status text file that provides text-based status results from operations performed on the pseudo-filesystem.

9. (Original) The method of claim 1 wherein the indicator to initiate the transaction results from the creation of a directory within a pseudo-filesystem.

10. (Original) The method of claim 1 wherein the transaction ensures atomic updates to the filesystem in accordance with modifications made to the pseudo-filesystem and related files during the transaction.

11. (Original) The method of claim 1 wherein a user assists in reconciliation of conflicts between updates in the pseudo-filesystems.

12. (Original) A method of interfacing with a filesystem comprising:

receiving a text-based command in a command file for operating on a pseudo-filesystem corresponding to the filesystem within a transaction;

determining whether one or more data dependencies would prevent the text-based command from being performed on the pseudo-filesystem; and

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performing the text-based command and potentially updating the pseudo-filesystem, the filesystem and one or more corresponding files associated with the pseudo-filesystem and filesystem respectively.

13. (Original) The method of claim 12 further comprising:

updating a status file associated with the pseudo-filesystem with text-based intermediate status results for performing the text-based command and updates performed in the system.

14. (Original) The method of claim 12 further comprising:

updating a status file associated with the pseudo-filesystem with text-based results indicating the final status associated with the command.

15. (Original) The method of claim 12 wherein receiving a text-based command includes functional equivalent commands selected from a set including: change root directory, select concurrency control type, select isolation level, commit transaction, and abort transaction.

16. (Original) The method of claim 12 wherein determining the one or more data dependencies includes using optimistic concurrency control (OCC) to control pending read and write operations to the pseudo-filesystem, the filesystem and one or more corresponding files associated with the pseudo-filesystem and filesystem respectively.

17. (Original) The method of claim 12 wherein determining the one or more data dependencies includes using lock-based concurrency control (LBCC) to control pending read and write operations to the pseudo-filesystem, the filesystem and one or more corresponding files associated with the pseudo-filesystem and filesystem respectively.

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18. (Original) The method of claim 12 wherein a user assists in reconciliation of conflicts between resources in the filesystem and pseudo filesystems and files associated with these.

19. (Original) A computer program product for creating a filesystem with transaction based functionality, tangibly stored on a computer readable medium, comprising instructions operable to cause a programmable processor to:

receive an indicator to initiate a transaction for files stored in one or more portions of the filesystem;

duplicate the one or more portions of the filesystem within a pseudo-filesystem; and

create a control file that receives text-based commands to operate on the pseudo-filesystem.

20. (Original) A computer program product for interfacing with a filesystem, tangibly stored on a computer readable medium, comprising instructions operable to cause a programmable processor to:

receive a text-based command in a command file for operating on a pseudo-filesystem corresponding to the filesystem within a transaction;

determine whether one or more data dependencies would prevent the text-based command from being performed on the pseudo-filesystem; and

perform the text-based command and potentially updating the pseudo-filesystem, the filesystem and one or more corresponding files associated with the pseudo-filesystem and filesystem respectively.

21. (Original) An apparatus that creates a filesystem with transaction based functionality comprising:

a processor;

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a memory having instructions capable of being executed on the processor that receive an indicator to initiate a transaction for files stored in one or more portions of the filesystem, duplicate the one or more portions of the filesystem within a pseudo-filesystem, and create a control file that receives text-based commands to operate on the pseudo-filesystem.

22. (Original) An apparatus that interfaces with a filesystem, comprising:

a processor;

a memory having instructions capable of being executed on the processor that receive a text-based command in a command file for operating on a pseudo-filesystem corresponding to the filesystem within a transaction, determine whether one or more data dependencies would prevent the text-based command from being performed on the pseudo-filesystem, and perform the text-based command and potentially updating the pseudo-filesystem, the filesystem and one or more corresponding files associated with the pseudo-filesystem and filesystem respectively.

23. (Original) An apparatus for creating a filesystem with transaction based functionality, comprising:

means for receiving an indicator to initiate a transaction for files stored in one or more portions of the filesystem;

means for duplicating the one or more portions of the filesystem within a pseudo-filesystem; and

means for creating a control file that receives text-based commands to operate on the pseudo-filesystem.

24. (Original) An apparatus for interfacing with a filesystem, comprising:

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means for receiving a text-based command in a command file for operating on a pseudo-filesystem corresponding to the filesystem within a transaction;

means for determining whether one or more data dependencies would prevent the text-based command from being performed on the pseudo-filesystem; and

means for performing the text-based command and potentially updating the pseudo-filesystem, the filesystem and one or more corresponding files associated with the pseudo-filesystem and filesystem respectively.